



PCFY-P-VGM-E

PCFY-P-VGM-E

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- A
- B
- C
- D
- E
- F**
- G
- H
- V_a
- V_b
- BC
- CT

Ceiling suspended	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250
	0.8HP	1.0HP	1.3HP	1.6HP	2.0HP	2.5HP	2.8HP	3.2HP	4.0HP	5.0HP	5.6HP	8.0HP	10.0HP
PCFY-P-VGM-E				●		●			●	●			

1. SPECIFICATIONS

R410A Data G4

Model			PCFY-P40VGM-E	PCFY-P63VGM-E	PCFY-P100VGM-E	PCFY-P125VGM-E	
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz				
Cooling capacity (Nominal)	*1	kW	4.5	7.1	11.2	14.0	
		kcal / h	3,900	6,100	9,600	12,000	
		Btu / h	15,400	24,200	38,200	47,800	
	*2	kcal / h	4,000	6,300	10,000	12,500	
		Power input	kW	0.10	0.13	0.16	0.24
Current input		A	0.46	0.60	0.73	1.10	
Heating capacity (Nominal)	*3	kW	5.0	8.0	12.5	16.0	
		kcal / h	4,300	6,900	10,800	13,800	
		Btu / h	17,100	27,300	42,700	54,600	
	Power input	kW	0.10	0.13	0.16	0.24	
		Current input	A	0.46	0.60	0.73	1.10
External finish			MUNSELL (0.70Y 8.59 / 0.97)				
External dimension H x W x D		mm	210x1,000x680	210x1,310x680	270 x 1,310 x 680	270 x 1,620 x 680	
		in.	8-5/16" x 39-3/8" x 26-13/16"	8-5/16" x 51-5/8" x 26-13/16"	10-11/16" x 51-5/8" x 26-13/16"	10-11/16" x 63-13/16" x 26-13/16"	
Net weight		kg (lb)	27 (60)	34 (75)	37 (82)	43 (95)	
Heat exchanger			Cross fin (Aluminum fin and copper tube)				
FAN	Type x Quantity		Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 3	Sirocco fan x 4	
	External static press.	Pa	0	0	0	0	
		mmH ₂ O	0	0	0	0	
	Motor type		1-phase induction motor				
	Motor output		kW	0.054	0.070	0.090	0.150
	Driving mechanism		Direct-driven by motor				
	Airflow rate (Low-Mid-High)	m ³ / min	8 - 10 - 11 - 12	12 - 14 - 16 - 18	18 - 20 - 23 - 25	26 - 28 - 32 - 35	
L / s		133 - 167 - 183 - 200	200 - 233 - 267 - 300	300 - 333 - 383 - 417	433 - 467 - 533 - 583		
		cfm	253 - 353 - 388 - 424	424 - 494 - 565 - 636	636 - 706 - 812 - 883	918 - 989 - 1130 - 1,236	
Noise level (Low-Mid-High) (measured in anechoic room)		dB <A>	29 - 33 - 36 - 38	32 - 34 - 37 - 39	36 - 38 - 41 - 43	37 - 39 - 42 - 44	
Insulation material			Polyester sheet				
Air filter			PP honeycomb (long life)				
Protection device			Fuse				
Refrigerant control device			LEV				
Connectable outdoor unit			R410A, R407C, R22 CITY MULTI				
Diameter of refrigerant pipe	Liquid (R410A) (R22, R407C)	mm (in.)	ø6.35 (ø1/4") Flare	ø9.52 (ø3/8") Flare	ø9.52 (ø3/8") Flare	ø9.52 (ø3/8") Flare	
			ø6.35 (ø1/4") Flare	ø9.52 (ø3/8") Flare	ø9.52 (ø3/8") Flare	ø9.52 (ø3/8") Flare	
	Gas (R410A) (R22, R407C)	mm (in.)	ø12.7 (ø1/2") Flare	ø15.88 (ø5/8") Flare	ø15.88 (ø5/8") Flare	ø15.88 (ø5/8") Flare	
			ø12.7 (ø1/2") Flare	ø15.88 (ø5/8") Flare	ø19.05 (ø3/4") Flare	ø19.05 (ø3/4") Flare	
Field drain pipe size		mm (in.)	Socket(I.D. 32mm (1-1/4"))+O.D. 32mm (1-1/4")				
Drawing	External		IU-RG01-N633	IU-RG01-N633	IU-RG01-N633	IU-RG01-N633	
	Wiring		IU-RG79-Y016	IU-RG79-Y016	IU-RG79-Y016	IU-RG79-Y016	
	Refrigerant cycle		-	-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book				
	Accessory						
Remark	Optional parts						
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				
Note :			*:1 Nominal cooling conditions	*:2 Nominal cooling conditions	*:3 Nominal heating conditions	Unit converter	
Indoor :			27° CDB/19° CWB (81° FDB/66° FWB)	27° CDB/19.5° CWB (81° FDB/67° FWB)	20° CDB (68° FDB)	kcal/h = kW x 860	
Outdoor :			35° CDB (95° FDB)	35° CDB (95° FDB)	7° CDB/6° CWB (45° FDB/43° FWB)	Btu/h = kW x 3,412	
Pipe length :			7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)	cfm = m ³ /min x 35.31	
Level difference :			0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lb = kg / 0.4536	
* Nominal conditions *:1, *:3 are subject to JIS B8615-1.						*Above specification data is subject to rounding variation.	
* Due to continuing improvement, above specification may be subject to change without notice.							

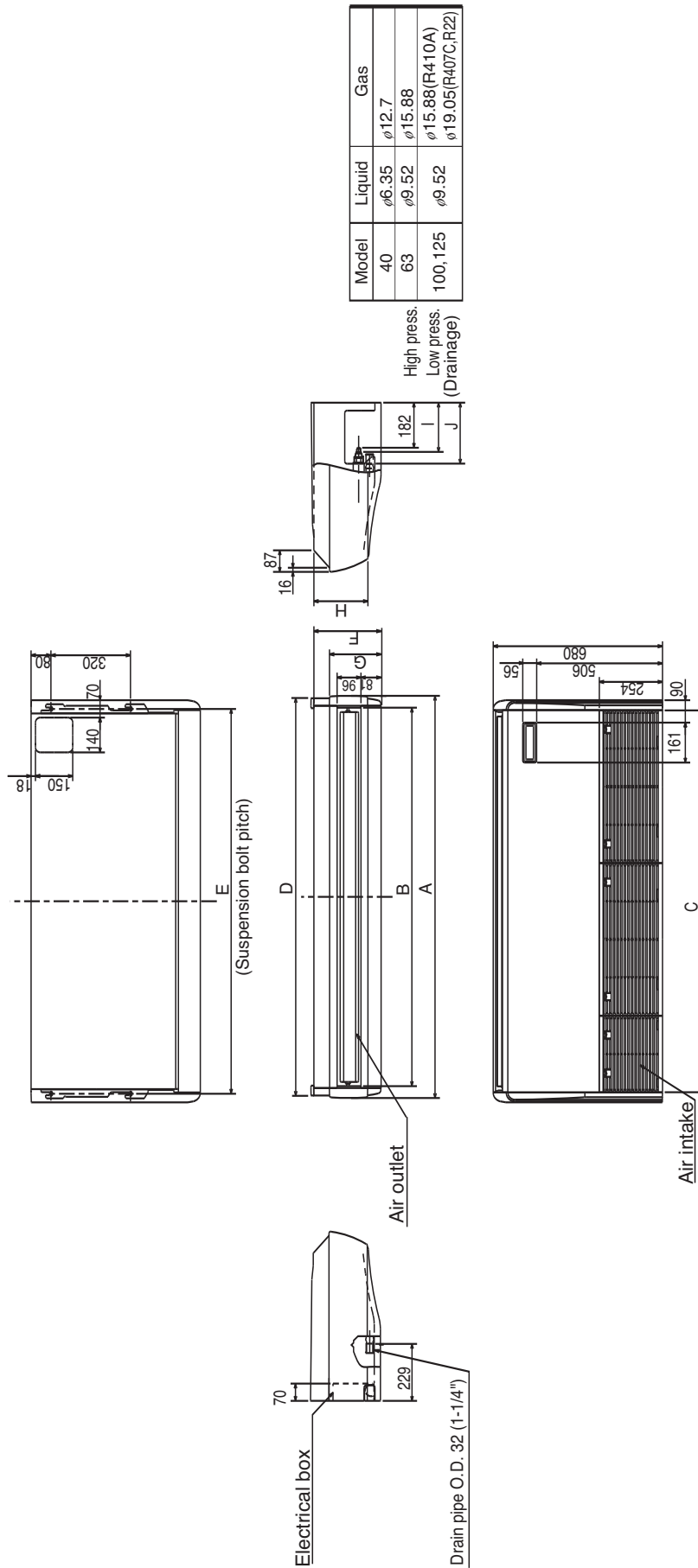
Ref.: Spec_PCFY-P-VGM-E

2. EXTERNAL DIMENSIONS

R410A Data G4

PCFY-P40,63,100,125VGM-E

Draw. : IU-RG01-N633
Unit : mm



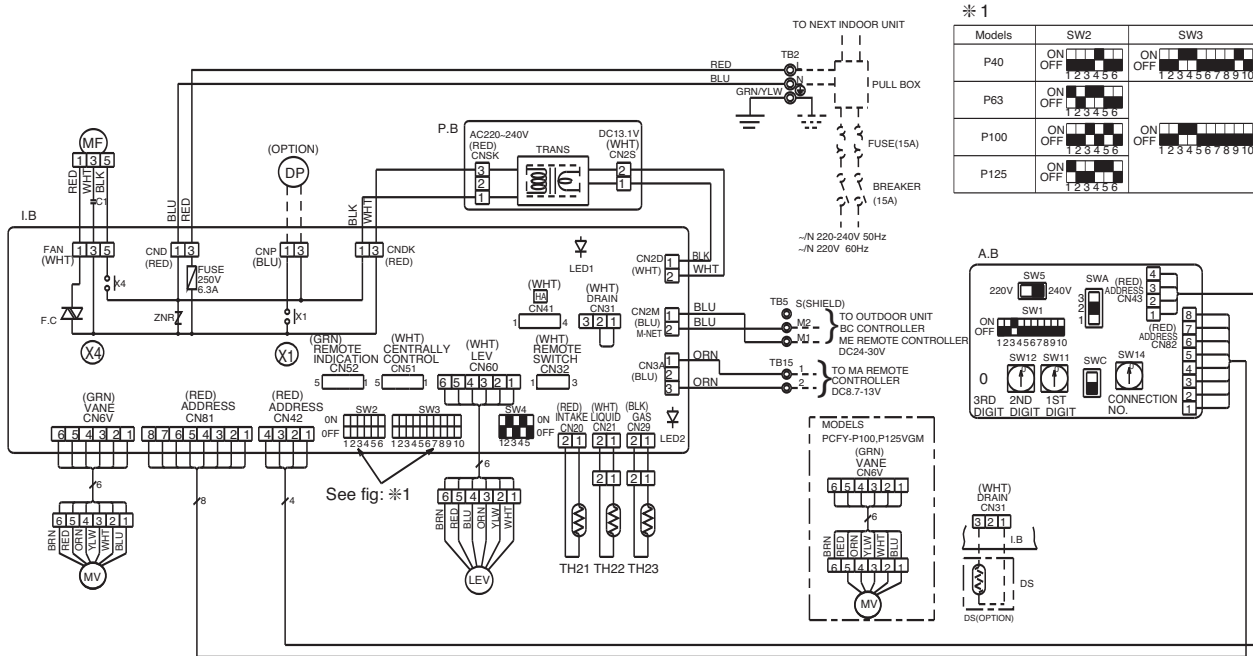
Model	A	B	C	D	E	F	G	H	I	J
PCFY -P40VGM-E	1,000	904	918	983	933	210	180	157	201	241
PCFY -P63VGM-E	1,310	1,214	1,228	1,290	1,240	210	180	157	201	241
PCFY -P100VGM-E	1,310	1,214	1,228	1,290	1,240	270	207	217	198	245
PCFY -P125VGM-E	1,620	1,524	1,535	1,600	1,547	270	207	217	198	245

PCFY-P40,63,100,125VGM-E

Drw. : IU-RG79-Y016

<SYMBOL EXPLANATION>

Symbol	Name	Symbol	Name	Symbol	Name	
I.B	Indoor controller board	C1	Capacitor(fan motor)	A.B	Circuit board	
CN32	Connector	LEV	Linear expansion valve	SW1	Mode selection	
CN51		MF	Fan motor(with inner thermo)	SW5	Voltage selection	
CN52		MV	Vane motor	SW11	Address setting 1st digit	
CNP		TH21	Thermistor	SW12	Address setting 2nd digit	
F.C	Fan phase control	TH22		Connection No.		
FUSE	Fuse (6.3A)	TH23				
SW2	Switch	Capacity code	Power supply	SWA	Ceiling height selector	
SW3		Mode selection		SWC	Option selector	
SW4		Model selection				
X1	Aux.Relay	Drain-up machine	Terminal block	Led on indoor board for service		
X4		Fan motor		DP	Drain-up machine (OPTION)	Mark
ZNR	Varistor	TB15	Terminal block	LED1	Main power supply	Main power supply (indoor unit:220-240V) power on → lamp is lit
P.B	Indoor power board	DS	Drain sensor (OPTION)	LED2	Power supply for MA Remote controller	Power supply for MA Remote controller on → lamp is lit



* 1

Models	SW2	SW3
P40	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6 7 8 9 10
P63	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6 7 8 9 10
P100	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6 7 8 9 10
P125	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6 7 8 9 10

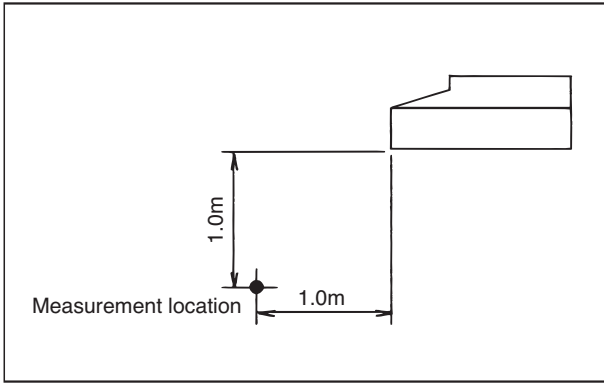
Note

- At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- In case of using MA Remote controller, please connect to TB15.
(Remote controller wire is non-polar.)
- In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
- Symbol[S] of TB5 is the shield wire connection.
- Symbols used in wiring diagram above are,
⊙:Terminal block, □:Connector.
- The setting of the SW2 dip switches differs in the capacity. For the detail, refer to the fig: *1.
- Please set the switch SW5 according to the power supply voltage.
Set SW5 to 240V side when the power supply is 230 and 240 volts.
When the power supply is 220 volts, set SW5 to 220V side.
- Fasten terminal of the terminal board "TB5" equips lock system.
To remove the fasten terminal, pull it while pressing the protruding portion (locking lever) of the terminal.
Connection of the fasten terminal, protruding portion should face upward.

4. SOUND LEVELS

4-1. Sound levels

PCFY-P-VGM-E

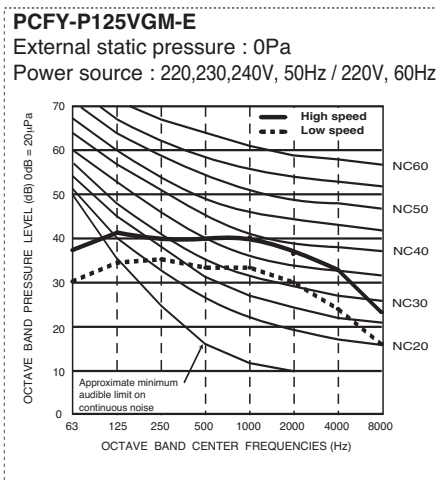
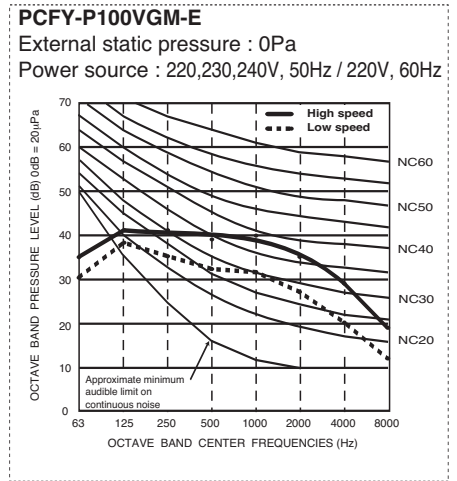
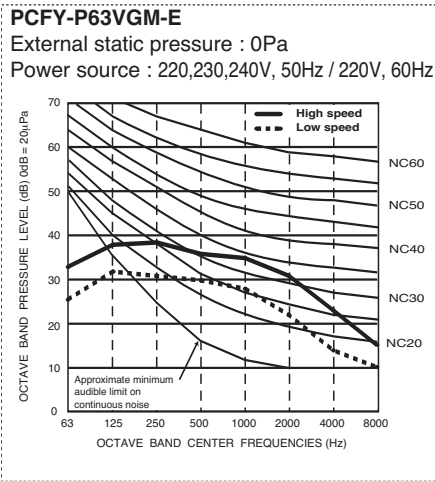
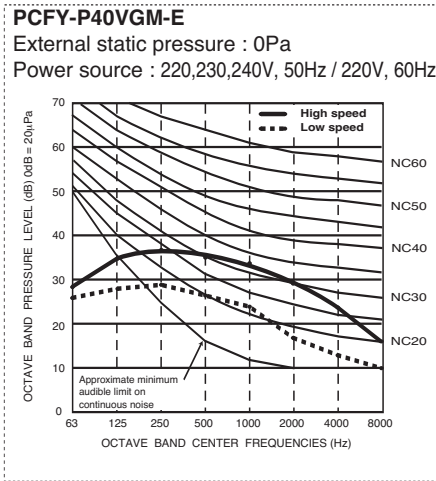


* Measured in anechoic room.

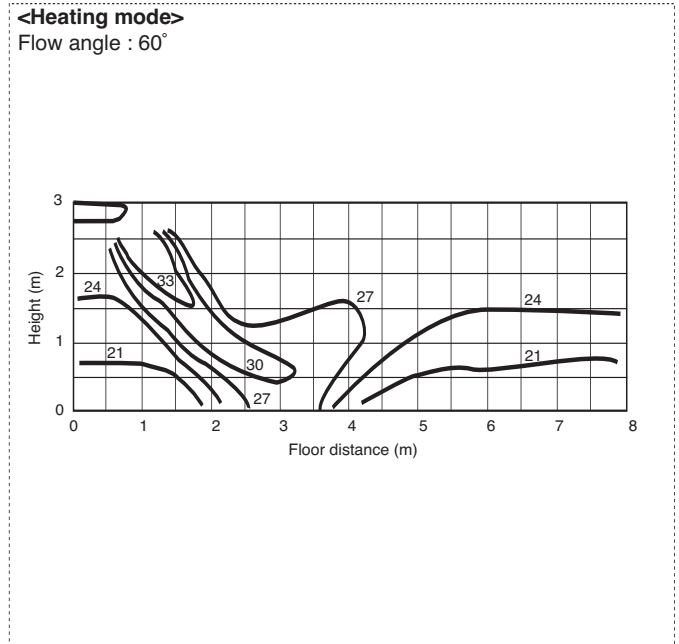
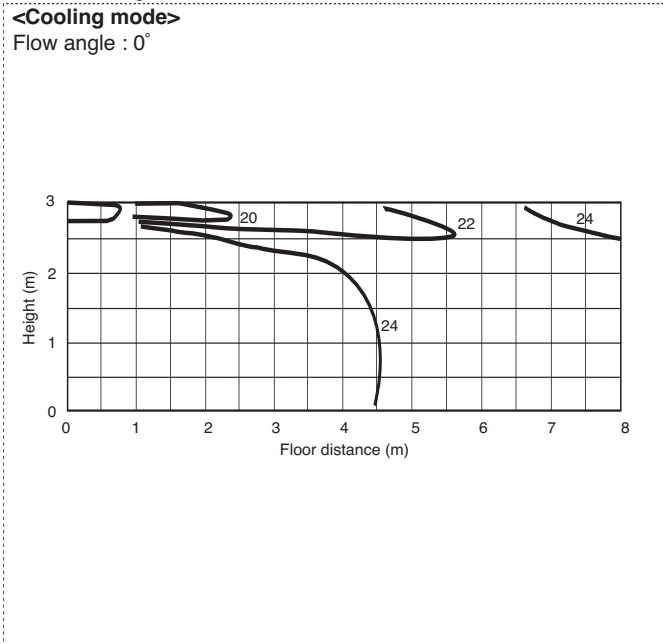
Sound level at anechoic room : Low-Middle2-Middle1-High

	Sound level dB (A)
PCFY-P40VGM-E	29-33-36-38
PCFY-P63VGM-E	32-34-37-39
PCFY-P100VGM-E	36-38-41-43
PCFY-P125VGM-E	37-39-42-44

4-2. NC curves

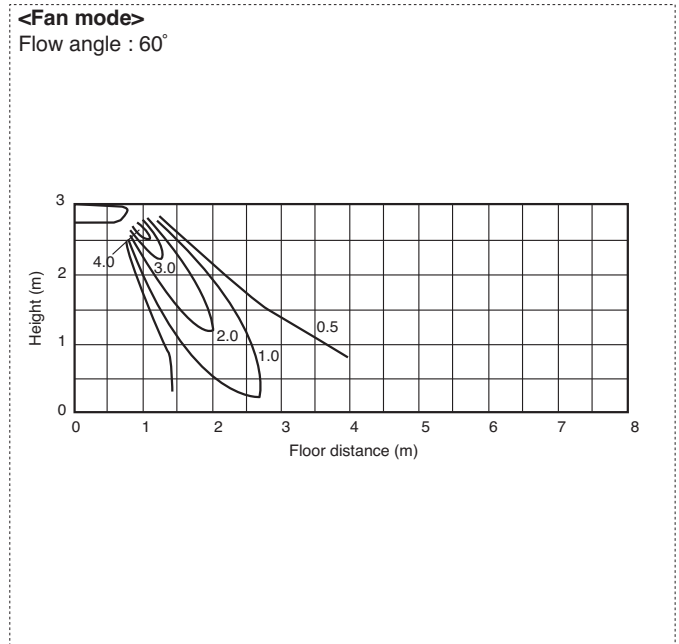
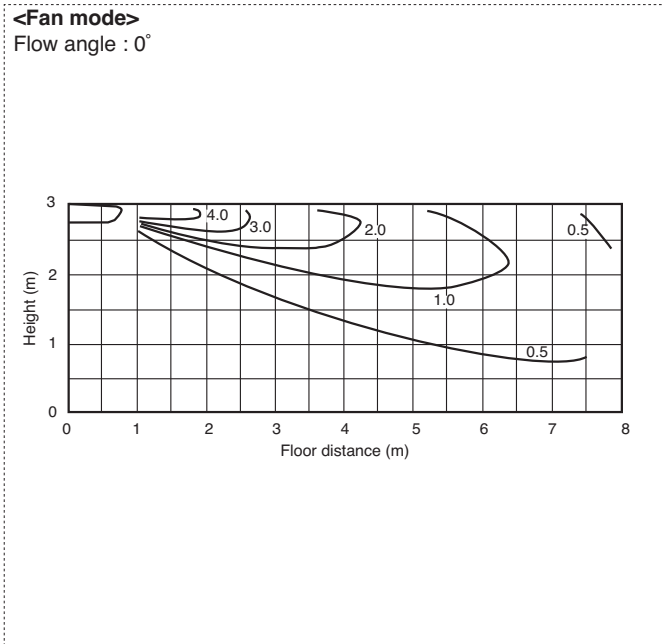


5-1. Temperature distributions



Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

5-2. Airflow distributions



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.